



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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January 24, 1996

William and Preston Bown  
Utah Building Stone Supply  
842 West 400 North  
Bountiful, Utah 84987

Re: Initial Plan Review, Notice of Intention to Commence Large Mining Operations, Utah Building Stone Supply Company, Dove Creek Quarry, M/003/016, Box Elder County, Utah

Dear Mr. Bown:

The Division has completed a review of your draft Notice of Intention to Commence Large Mining Operations for the Dove Creek Quarry, located in Box Elder County, Utah, received July 31, 1995. After reviewing the information, the Division has the following comments which will need to be addressed before tentative approval may be granted. The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion. Please note, you may not expand your operation until these deficiencies are addressed, appropriate reclamation surety is posted and your plan is formally approved by the Division.

## R647-4-105 - Maps, Drawings & Photographs

### *105.2 Surface facilities map:*

The application does not have adequate drawings or descriptions to determine the areas to be disturbed. The map provided does not show access to two proposed pits in section 13. If there are existing roads, they need to be shown on the map. If they are proposed roads, they also need to be shown on the map. The area affected by the roads also needs to be added to the disturbed acreage total.

### *105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)*

Please Provide typical cross sections of roads, pads, pits, and waste rock areas.

A reclamation treatments map(s) is needed. This map(s) will need to show what roads will be reclaimed and which roads will remain as part of the post mining land use, areas that will be covered with soil, areas of solid rock outcrop (areas where topsoiling and seeding will not occur) and areas that may receive other reclamation treatments such as deep ripping, mulch, fertilizer, etc.



**R647-4-106 - Operation Plan**

*106.3 Estimated acreages disturbed, reclaimed, annually.*

This section was not addressed. The map identifies 13 acres of quarry and pad areas that are currently disturbed and 12 acres of proposed quarry disturbance (plus 2 future quarry areas that have no acreage indicated). No acreage is given for roads or the campsites. On April 25, 1995, the Division, in consultation with the Forest Service, determined that one acre of road will need to be reclaimed at the end of mine life. In November of 1995, 0.34 acres of new road was disturbed to the northeast, yielding a total of approximately 1.34 acres of road to be included in your overall disturbance. You will need to include the acreage of all proposed roads as well. Assuming a width similar to the new road made in November, we estimate that there will be an additional 2.55 acres [1.5 miles of proposed road] of disturbance. Please provide a timetable of when new quarry areas will be opened and when the existing quarries will be reclaimed.

*106.5 Existing soil types, location, amount.*

As discussed with Preston during a December 11, 1995 onsite inspection, there are some soils that will need to be salvaged as your mining operation progresses. During that inspection, Preston was instructed to obtain a couple soil samples and send them to a soils lab for analysis. The soil samples should be analyzed for the following parameters: Texture, pH, EC, SAR, and fertility (N, P, K). In addition, you will need to estimate how much soil has been salvaged on site as well as the approximate amount that will be available to salvage in the future. This will be primarily along the proposed roads.

*106.6 Plan for protecting & redepositing soils*

This section was not addressed. Please describe how the soil materials will be stockpiled and protected, and how you will respread these soils at the time of reclamation.

*106.7 Existing vegetation - species and amount*

Your notice included some basic vegetation information. However, during a joint Division/Forest Service inspection on December 11, 1995, it was determined that the data submitted was not accurate. The Division and Forest Service personnel did a survey and found two distinct vegetation types. The first community was along the ridges and upper slopes and consisted of 50% vegetation cover, 10% litter, 30% rock and 10% bare ground. This community was dominated by Wyoming big sagebrush, bluebunch wheatgrass and western wheatgrass. The second community was in the lower slope positions and draws and had 80% vegetation cover, 9% litter, 10% rock and 1% bare ground. This type is dominated by serviceberry and basin wildrye. Your application will need to be revised to reflect this basic information.

*106.9 Location of wasterock stockpiles*

Please show on the map the location of all wasterock stockpiles. Also, any piles that are not used for backfilling the pits will need to be reclaimed. Please provide detailed reclamation plans describing how these waste rock piles will be reclaimed.



**R647-4-107 - Operation Practices**

*107.3 Erosion control & sediment control*

Please describe how you will minimize erosion and prevent sediment from leaving the site.

*107.4 Deleterious material safely stored or removed*

Please describe how potentially deleterious materials will be stored on site and removed (this includes fuel, oil, grease, etc.) Indicate the volume of these materials that you may need to keep on site at any one time and how they will be protected from spillage. If any of these materials are stored on-site, they will be required to be kept in a 100% containment structure.

*107.5 Suitable soils removed & stored*

Please refer to comments under R647-4-106.5 and .6.

*107.6 Concurrent reclamation*

Please refer to comments under R647-4-106.3

**R647-4-109 - Impact Assessment**

*109.1 Impacts to surface & groundwater systems*

While impacts to groundwater may be negligible, impacts to surface waters needs to be addressed. It appears from the map that new roads will be constructed around the boggy area along the access road. This needs to be clearly stated. Also, you need to discuss how drainages will be crossed to minimize impacts to stream channels. Also, you will need to provide reclamation plans to restore any impacted drainages or stream channels.

*109.4 Slope stability, erosion control, air quality, safety*

Final reclamation contours, pit slopes, etc. need to be described. Typical cross-sections of the final pit configurations showing final slope of the highwalls needs to be provided.

**R647-4-110 - Reclamation Plan**

*110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed*

Please provide a map showing which roads are to be left after reclamation. A description of the reclamation plans for roads that will not remain after mining terminates needs to be provided. It appears that waste rock materials will be used to fill pits and possibly backfill against highwalls to reduce or eliminate them. Please confirm this assumption.



*110.5 Revegetation planting program*

While the Division may grant variances to certain revegetation performance standards-(see variance section), there will be areas that will require revegetation (including topsoil replacement, seedbed preparation, planting methods, mulching, fertilizing, etc.). A recommended seed mix is attached for areas that will require seeding. This seed mix has been reviewed by the Forest Service and was found to be acceptable to them. Please acknowledge if this is acceptable to you. The Forest Service should be consulted as your reclamation revegetation plan is developed.

**R647-4-111 - Reclamation Practices**

*111.1 Public safety & welfare*

- 1.15 *Constructing berms/fences above highwalls* - Will all highwalls be eliminated? If not, there may be a need to berm and/or fence the top of some highwall areas. Please identify and appropriately label the areas on a map that will have unreclaimed highwalls that will be accessible to the public.

*111.2 Reclamation of natural channels*

Please discuss how stream crossings and natural drainage channels will be reclaimed.

*111.3 Erosion & sediment control*

What measures will be used to control erosion at the time of reclamation?

*111.6 All slopes regraded to stable configuration*

Please refer to comments under section R647-4-110.2

*111.7 Highwalls stabilized at 45 degrees or less*

Please refer to comments under sections R647-4-110.2 and 111.15.

*111.8 All roads & pads reclaimed*

Please refer to comments under section R647-4-110.2

*111.12 Topsoil redistribution*

Please refer to comments under section R647-4-106.6.

**R647-4-112 - Variance**

The operator has requested variances from topsoil salvaging, soil replacement, seeding, fertilizing, mulching and it is assumed from meeting the 70% revegetation standards (since a request for a variance from seeding was made).



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The Division will grant a variance for salvaging and redistributing topsoil on existing disturbed areas where no topsoil was originally salvaged. Before any new disturbances are created, the Division will need to inspect these areas to determine if the variance for topsoil salvaging is warranted for these areas. Please note, even an inch or two of soil, if it can be salvaged will greatly improve revegetation success.

The Division will grant a variance from seeding those areas that are solid rock (and from meeting revegetation performance standards on these areas as well).

All areas that will be retopsoiled, or areas where there is sufficient fines that could support vegetation, will need to be seeded, fertilized, and mulched (waste rock areas). This will include all roads that will not remain as part of the approved post mining land use.

Seedbed preparation will be required on all areas that are to be seeded. This may consist of ripping or deep disking to eliminate compaction.

It is the Division's opinion that reasonable reclamation efforts will result in a permanent vegetation cover that will achieve the revegetation performance standards. Therefore, a variance for meeting the revegetation performance standards on areas to be seeded is not granted at this time.

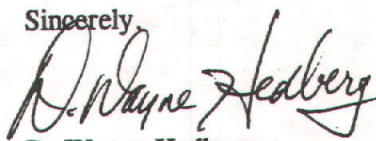
#### **R647-4-113 - Surety**

Please prepare a detailed cost estimate for performing each item in the reclamation plan. The Division will use your estimate as a basis for calculating our own (third party) reclamation cost estimate for this site. Once the final reclamation surety amount is agreed upon by the Division and the Forest Service, you will be required to post the appropriate form of surety.

The Division has enclosed comments received from the U.S. Forest Service that will need to be addressed as well. As per conversations with Mr. Gordon Struthers of the Forest Service, some of these comments (i.e. cultural survey) have already been taken care of.

The Division will suspend further review of the Dove Creek Quarry NOI until your response to this letter is received. Please note, *no new disturbances are to be made* even though they may be identified in your large mining notice, until the plan for this site is approved and surety is posted. If you have any questions in this regard please contact me, Tony Gallegos, Lynn Kunzler, or Tom Munson of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,



D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

jb

Attachment: Seedmix

Enclosure: USFS 8/7/95 letter w/3 attachments to letter



**TABLE 1**  
**DOVE CREEK QUARRY**  
**SCHEDULE OF OPERATIONS AND RECLAMATION**

1998 (PLAN)

**OPERATION**

- A. MAIN QUARRY, contract stone excavating and hauling of about 3,000 tons to an off site process (splitting, sizing and palletizing) facility over about a 4-6 week period.
- B. UPPER WHITE QUARRY, recovery of about 300 tons from an initial pit about 100' long (E-W) and 40' wide (N-S).
- C. WEST RIDGE QUARRY, production of about 200 tons of patio stone from the southern portion (1/3 acre) of the quarry that is not reclaimed in 1998.
- D. **SUNSHINE-EAST PROSPECT**, basic access to and exploration of the exposed stone site and early, limited development-if warranted.
- E. **SUNSHINE-WEST PROSPECT**, same tentative program as for Sunshine- East.

1999 (FORECAST)

- A. MAIN QUARRY, continued operation at about 3,000-4,000 annual ton level.
- B. UPPER WHITE QUARRY, continued operation at about 300-450 annual ton level. Some extension to initial pit.
- C. WEST RIDGE QUARRY, sustained recovery of patio stone depending upon market demand.
- D&E **SUNSHINE-EAST & WEST**, continue early development and some trial stone production if justified.

2,000-2,005 (PROJECTION)

- A. MAIN QUARRY, continued level of operations with quarry face progressing northeasterly.
- B. UPPER WHITE QUARRY, production continues at or above earlier levels.
- C. WEST RIDGE QUARRY, sustained production at market demand level.
- D&E. **SUNSHINE-EAST & WEST**, actual production being studied and evaluated.



### 1998 (PLAN)

#### **RECLAMATION**

1. MAIN QUARRY, presently at 3.72 acres in extent (410' N-S by 375' E-W). A 1 to 1 1/4 acre tract at the north end (former splitting & parking site) will be reclaimed.
2. UPPER WHITE QUARRY, a sidehill tract of 2.33 acres (300' width, 275' length with a 150' by 90' extension. Plan for berm improvement along south limit.
3. WEST RIDGE QUARRY, complete the reclaim on the 3.15 acre tract begun in 1987 except for about a 1/3 acre parcel on the south end. E & W access roads left.
4. **SUNSHINE EAST** (0.7 acres) & **SUNSHINE WEST** (0.55 acres), early exploration and development, no reclaim expected. Rock outcrop only-no soil.
5. "BLUE TRAILER" (0.10 acre) & "QUARRY" (0.15) CAMPS, trailers and remnants of camp use removed and sites reclaimed-including seeding.
6. FAR WHITE QUARRY, complete reclaim of 0.65 acre site and access road G.

### 1999 (FORECAST)

1. MAIN QUARRY, second stage of north end reclamation on about 1/2 to 3/4 acre. Reworking and contouring of large east end waste rock stockpile and highwall backfill.
2. UPPER WHITE QUARRY, partial filling of initial pit with waste rock.
3. WEST RIDGE QUARRY, placement of waste rock in 1/3 acre south end pit.
4. **SUNSHINE EAST & WEST**, possible road improvement and initial soil and waste rock stockpiles and down slope berms developed.
5. FAR WHITE SITE, follow-up on Revegetation for site and access road.

### 2,000-2,005 (PROJECTION)

1. MAIN QUARRY, waste rock fill in retreat of main face. Soil covering & seeding.
2. UPPER WHITE QUARRY, sequence of quarry advances to north and east followed by waste rock filling. Mixed soil and fines spread and seeded.
3. WEST RIDGE QUARRY, completion of reclaim on depleted 1/3 acre pit.

Also refer to summaries of Reclamation Schedule and Topsoil Resources and Map 2.  
WLB/RFR April 1998





United States  
Department of  
Agriculture

Forest  
Service

Sawtooth  
National  
Forest

Burley/Twin Falls Ranger  
District  
3650 South Overland Ave.  
Burley, Id. 83318-3242  
(208) 678-0430  
(208) 737-3200

File Code: 2810

Date: March 17, 1999

William Bown  
842 West 400 North  
West Bountiful, Utah 84087

CERTIFIED, RETURN RECEIPT RE-  
QUESTED

Dear Bill,

I am giving you formal notice that your operations at Dove Creek and Lynn Springs are in non-compliance. The noncompliance is the lack of approved Plan of Operations and sufficient bonds for the Dove Creek and Lynn Springs quarries. The Plans of Operation you have submitted for both operations can be approved as soon as sufficient bonds have been provided. You have 30 days to provide bonds adequate to cover reclamation work at each quarry. The 30 day time will start when the area of operations are accessible. Until the noncompliance is corrected no material may be removed or any earth work be done.

Our files for the two operations contain copies of 1998 bonding letters to you from the Utah Division of Oil Gas and Mining. This office did participate in calculation of bond amounts contained in these letters. The Dove Creek operation requires a bond of \$24100. The Lynn Springs operation bond is \$17900. (see attached bond calculations)

If you have any questions, please contact Gordon Struthers at this office.

Sincerely,

PETE PETERSON  
District Ranger

cc Lynn Kunzler, Utah DOGM





Following is a time line which must be followed for approval of projects requiring an environmental assessment (EA):

